



PATENT
Customer No. 22,852
Attorney Docket No. 03626.0066-00000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Ernest L. LAWTON et al.) Group Art Unit: 1774
)
Application No.: 10/775,174) Examiner: Jill M. Gray
)
Filed: February 11, 2004)
)
For: FIBER PRODUCT COATED WITH)
PARTICLES TO ADJUST THE)
FRICTION OF THE COATING)
AND THE INTERFILAMENT)
BONDING)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p).

Copies of the listed foreign and non-patent literature documents are attached.

Copies of the U.S. patent publications are not enclosed.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form. With respect to the non-English language documents, Applicants submit a translation or an English language abstract.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

By: 

Mark D. Sweet
Reg. No. 41,469

Dated: March 16, 2006

Complete if Known

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Application Number

10/775,174

Filing Date

February 11, 2004

First Named Inventor

Ernest L. LAWTON et al.

Art Unit

1774

Examiner Name

Jill M. Gray

Attorney Docket Number

03626.0066-00

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS

Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Appear
		Number-Kind Code ² (if known)			
		5,151,146	09/29/1992	Green	
		5,204,295	04/20/1993	Paine, Jr. et al.	
		5,188,757	02/23/1993	Paine, Jr. et al.	
		5,217,796	06/08/1993	Kasai et al.	
		5,219,656	06/15/1993	Klett et al.	
		5,230,951	07/27/1993	Birchall et al.	
		5,246,746	09/21/1993	Michalske et al.	
		5,275,883	01/04/1994	Leone et al.	
		5,281,441	01/25/1994	Kasai et al.	
		5,284,807	02/08/1994	Komori et al.	
		5,286,562	02/15/1994	Girgis	
		5,326,410	07/05/1994	Boyles	
		5,336,024	08/09/1994	Nakagawa et al.	
		5,354,602	10/11/1994	Stranford et al.	
		5,358,741	10/25/1994	Gat	
		5,364,657	11/15/1994	Throne	
		5,370,911	12/06/1994	Throne et al.	
		5,418,194	05/23/1995	Dawes et al.	
		5,427,986	06/27/1995	Chyung et al.	
		5,431,995	07/11/1995	Narita et al.	
		5,435,671	07/25/1995	Weinreich	
		5,449,480	09/12/1995	Kuriya et al.	
		5,507,603	04/16/1996	Nakano et al.	
		5,507,962	04/16/1996	Jahanmir et al.	
		5,508,096	04/16/1996	Van Skyhawk	
		5,520,999	05/28/1996	Van Skyhawk et al.	
		5,541,238	07/30/1996	Yamada et al.	
		5,552,215	09/03/1996	Tredway et al.	
		5,562,966	10/08/1996	Clarke et al.	
		5,591,789	01/07/1997	Iruvanti et al.	
		5,593,767	01/14/1997	Noda et al.	
		5,599,144	02/04/1997	Bickham et al.	
		5,672,297	09/30/1997	Soane	
		5,674,351	10/07/1997	Lovoi	

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		Number-Kind Code ² (if known)			
		5,677,045	10/14/1997	Nagai et al.	
		5,690,715	11/25/1997	Schiwek	
		5,690,837	11/25/1997	Nakaso et al.	
		5,719,090	02/17/1998	Appelt et al.	
		5,759,924	06/02/1998	Sahlin	
		5,800,874	09/01/1998	Appelt et al.	
		5,853,809	12/29/1998	Campbell et al.	
		5,858,461	01/12/1999	Appelt et al.	
		5,866,253	02/02/1999	Philipps et al.	
		5,869,173	02/09/1999	Zheng et al.	
		5,871,819	02/16/1999	Appelt et al.	
		5,874,009	02/23/1999	Inada et al.	
		5,877,240	03/02/1999	Piret et al.	
		5,888,036	03/30/1999	Arai et al.	
		5,888,627	03/30/1999	Nakatani	
		5,907,106	05/25/1999	Segar	
		5,910,255	06/08/1999	Noddin	
		5,935,452	08/10/1999	Inada et al.	
		5,940,787	08/17/1999	Gelston	
		5,984,523	11/16/1999	Houser et al.	
		5,998,237	12/07/1999	Conrod et al.	
		6,000,886	12/14/1999	Washio et al.	
		6,060,150	05/09/2000	Nakatani et al.	
		6,117,516	09/12/2000	Nakata	
		6,124,220	09/26/2000	Nakata et al.	
		2,740,239	04/03/1956	Ball et al.	
		2,793,478	05/28/1957	Rohowetz	
		2,797,469	07/02/1957	Kahn	
		3,146,560	09/01/1964	Hurst	
		3,312,569	04/04/1967	Philipps et al.	
		5,412,003	05/02/1995	Akiyama et al.	
		3,556,448	01/19/1971	Dobbs	
		3,586,063	06/22/1971	Bell, Jr. et al.	
		3,664,855	05/23/1972	Morrison et al.	

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		Number-Kind Code ² (if known)			
		3,688,453	09/05/1972	Legacy et al.	
		3,700,538	10/24/1972	Kennedy	
		3,709,721	01/09/1973	King	
		3,919,028	11/11/1975	Lewis et al.	
		3,928,666	12/23/1975	Morrison et al.	
		4,009,317	02/22/1977	Chase et al.	
		4,118,528	10/03/1978	Lowry	
		4,168,345	09/18/1979	de Massey et al.	
		4,228,514	10/14/1980	Weiss	
		4,247,364	01/27/1981	Culp	
		4,370,157	01/25/1983	Barch et al.	
		4,372,347	02/08/1983	Olson	
		4,379,798	04/12/1983	Palmer et al.	
		4,383,785	05/17/1983	Rice	
		4,390,647	06/28/1983	Girgis	
		4,396,676	08/02/1983	Brannon et al.	
		4,514,466	04/30/1985	Leon, Jr. et al.	
		4,530,876	07/23/1985	Brodmann et al.	
		4,532,176	07/30/1985	Briggs et al.	
		4,579,772	04/01/1986	Bhatt et al.	
		4,605,588	08/12/1986	Simpson et al.	
		4,615,933	10/07/1986	Traut	
		4,642,271	02/10/1987	Rice	
		4,643,936	02/17/1987	Eidal	
		4,713,285	12/15/1987	Klein	
		4,750,806	06/14/1988	Biswas et al.	
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		Number-Kind Code ² (if known)			
		4,826,365	05/02/1989	White	
		4,858,479	08/22/1989	Voss et al.	
		4,863,787	09/05/1989	Gawin	
		4,869,954	09/26/1989	Squitieri	
		4,872,787	10/10/1989	Arai et al.	
		4,894,105	01/16/1990	Dyksterhouse et al.	
		4,913,740	04/03/1990	Frederickson	
		4,917,547	04/17/1990	Frederickson et al.	
		4,919,866	04/24/1990	Kubbutat	
		4,929,370	05/29/1990	Hatch et al.	
		4,935,294	06/19/1990	Misevich et al.	
		4,943,606	07/24/1990	Inoue et al.	
		4,948,662	08/14/1990	Simpson et al.	
		4,960,634	10/02/1990	Boyko et al.	
		4,971,779	11/20/1990	Paine et al.	
		4,980,217	12/25/1990	Grundfest et al.	
		4,997,702	03/05/1991	Gazit et al.	
		5,038,555	08/13/1991	Wu et al.	
		5,005,978	04/09/1991	Skunes et al.	
		5,011,870	04/30/1991	Peterson	
		5,025,045	06/18/1991	Gawin et al.	
		5,028,984	07/02/1991	Ameen et al.	
		5,047,279	09/10/1991	Nasu et al.	
		5,047,281	09/10/1991	Betz et al.	
		5,067,859	11/26/1991	Korbonski	
		5,082,402	01/21/1992	Gaku et al.	
		5,126,532	06/30/1992	Inagawa et al.	
		5,132,254	07/21/1992	Stempin et al.	
		5,773,146	06/30/1998	Lawton et al.	
		5,165,932	11/24/1992	Horvath	
		5,206,078	04/27/1993	Inoguchi et al.	
		2002-0058140 A1	05/16/2002	Dana et al.	
		2003-0057404 A1	03/27/2003	Nishii et al.	

Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	1	CH 670105	05/12/1989	Baumberger et al.		
	2	DE 19-605801	08/28/1997	Herr, J.		Abstract
	3	EP 0 468 476 A2	01/29/1992	Ishii et al.		
	4	EP 588244 A3	06/08/1994	Binder, H.		Abstract
	5	FR 2-503766	10/15/1982	Taugeron, N.		Abstract
	6	GB 2 236 540 A	04/10/1991	Sutton et al.		
	7	JP 1-202442	08/15/1989	Sawa et al.		Abstract
	8	JP 1-203247	08/16/1989	Nippon Glass Seni KK		Abstract
	9	JP 1-222950	09/06/1989	Hitachi Chem Co. Ltd.		Abstract
	10	JP 1-249333	10/04/1989	Nagamine et al.		Yes
	11	JP 10-146916	06/02/1998	Sumitomo Bakelite Co. Ltd.		Abstract
	12	JP 10-338758	12/22/1998	Nakata, T.		Yes
	13	JP 11-269752	10/05/1999	Oji Paper Co.		Abstract
	14	JP 11-286073	10/19/1999	Nitto Boseki Co. Ltd.		Yes
	15	JP 2-251651	10/09/1990	Nitto Boseki Co. Ltd.		Abstract
	16	JP 2-659490	09/30/1997	Sumitomo Bakelite Co. Ltd.		Abstract
	17	JP 2-740600	04/15/1998	Sumitomo Bakelite Co. Ltd.		Abstract
	18	JP 2-787846	08/20/1998	Sumitomo Bakelite Co. Ltd.		Abstract
	19	JP 3-115332	05/16/1991	Kato, H.		Yes
	20	JP 3-125093	01/15/2001	Bahner, F.		Abstract
	21	JP 3-151397	04/03/2001	Guder, H.-J. et al.		Abstract
	22	JP 3-212987	09/18/1991	Matsushita Electric Works Ltd.		Abstract
	23	JP 3-214685	09/19/1991	Sumitomo Bakelite Co.		Abstract
	24	JP 4-002857	01/07/1992	Nitto Boseki Co. Ltd.		Abstract
	25	JP 4-055437	02/24/1992	Matsushita Electric Works Ltd.		Abstract
	26	JP 4-125140	04/24/1992	Hitachi Chem Co. Ltd.		Abstract
	27	JP 4-255288	09/10/1992	Kanebo Ltd.		Abstract
	28	JP 4-276694	10/01/1992	Matsushita Electric Works Ltd.		Abstract
	29	JP 4-307787	01/07/1997	Iketani, K.		Yes
	30	JP 4-366628	12/18/1992	Iketani, K.		Abstract
	31	JP 4-367763	12/21/1992	Mitsubishi Plastics Ind Ltd.		Abstract
	32	JP 5-000493	01/08/1993	Takaura, S.		Yes
	33	JP 5-078945	03/30/1993	Miyazato, K.		Yes

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	34	JP 5-110218	04/30/1993	Sigekuni, S.		Yes
	35	JP 5-174623	07/13/1993	Suzuki, T.		Yes
	36	JP 5-261855	10/12/1993	Shin Kobe Electric Machinery		Abstract
	37	JP 5-286093	11/02/1993	Matsushita Electric Works Ltd.		Abstract
	38	JP 53-143582	12/14/1978	Shogo, O.		Yes
	39	JP 57-045054	03/13/1982	Fujikura Cable Works Ltd.		Abstract
	40	JP 59-047479	03/17/1984	Fuji Fibre Glass Co. Ltd.		Abstract
	41	JP 60-209072	10/21/1985	Dainippon Ink & Chem KK		Abstract
	42	JP 61-213115	09/22/1986	Tagami, G. et al.		Yes
	43	JP 6-248572	09/06/1994	Aoki, et al.		Abstract
	44	JP 6-305078	11/01/1994	Shin Kobe Electric Machinery		Abstract
	45	JP 63-270106	11/08/1988	Shin Kobe Electric Machinery		Abstract
	46	JP 7-022718	01/24/1995	Yamamoto et al.		Yes
	47	JP 7-069683	03/14/1995	Nitto Boseki Co. Ltd.		Abstract
	48	JP 7-102483	04/18/1995	Saito et al.		Yes
	49	JP 7-176843	07/14/1995	Sumitomo Bakelite Co.		Abstract
	50	JP 7-279055	10/24/1995	Upstream, N.		Yes
	51	JP 80-030315	08/09/1980	Mitsubishi Gas Chem Ind Co. Ltd.		Abstract
	52	JP 8-012380	01/16/1996	Nitto Boseki Co. Ltd.		Abstract
	53	JP 8-118542	05/14/1996	Matsushita Electric Works Ltd.		Abstract
	54	JP 8-119682	05/14/1996	Nitto Boseki Co. Ltd.		Abstract
	55	JP 8-309928	11/26/1996	Hitachi Chem Co. Ltd.		Abstract
	56	JP 8-325950	12/10/1996	Saito, J.		Yes
	57	JP 87-026906	06/11/1987	Denki Kagaku Kogyo KK		Abstract
	58	JP 9-003217	01/07/1997	Matsushita Electric Works Ltd.		Abstract
	59	JP 9-003770	01/07/1997	Matsumoto et al.		Yes
	60	JP 9-087992	03/31/1997	Mitsubishi Paper Mills Ltd.		Abstract
	61	JP 91-060862	09/18/1991	Sumitomo Bakelite Co.		Abstract
	62	JP 9-208268	08/12/1997	Sugano, K.		Yes
	63	JP 9-209233	08/12/1997	Saito et al.		Yes
	64	JP 9-241397	09/16/1997	Satoru et al.		Yes
	65	JP 9-255374	09/30/1997	Nitto Boseki Co. Ltd.		Abstract
	66	JP 9-268034	10/14/1997	Kajita et al.		Yes

IDS Form PTO/SB/08: Substitute for form 1449A/PTO				Complete if Known	
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	67	JP 9-270584	10/14/1997	Nashimoto et al.		Yes
	68	JP 93-064586	09/14/1993	Matsushita Electric Works Ltd.		Abstract
	69	JP 9-308809	12/02/1997	Koura et al.		Yes
	70	JP 97-150965	06/09/1997	Sumitomo Bakelite Co.		Abstract
	71	RU 2-072121	07/26/1991	Adolfovna et al.		Yes
	72	WO 00/21899 A	04/20/2000	PPG Industries Ohio, Inc.		
	73	WO 01/68755 A	09/20/2001	PPG Industries Ohio, Inc.		
	74	WO 90/01860	02/22/1990	Hausotter et al.		Abstract
	75	WO 97/14280	04/17/1997	Chu et al.		
	76	WO 97/35457	09/25/1997	Tungare et al.		
	77	WO 99/44955	09/10/1999	Novich et al.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁶
		ASTM Designation: C-177-85, "Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus," (Reapproved 1993), p. 1-12	
		ASTM Designation: C-518-91, "Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus," (1991), pp. 1-12	
		ASTM Designation: D 737-96, "Standard Test Method for Air Permeability of Textile Fabrics," (1996), pp. 1-5	
		ASTM Designation: D-2344-84, "Standard Test Method for Apparent Interlaminar Shear Strength of Parallel Fiber Composites by Short-Beam Method," (Reapproved 1995), pp. 1-3	
		BORON NITRIDE LUBICOAT®-BNW, "Non-Corrosive, Neutral pH Paste Version of the Boron Nitride Lubricat®," a technical bulletin of ZYP Coatings	
		BORON NITRIDE LUBRICOAT®, "Inert, Non-Reactive, High Temperature Protection, Lubrication and Release," a technical bulletin of ZYP Coatings	
		BORON NITRIDE RELEASECOAT-CONC, "Allows for Maximum Dilution for Maximum Economy," a technical bulletin of ORPAC	
		BRAZE STOP-OFF PAINT, "Provides Teflon®-Like Release with Braze Alloys," a technical bulletin of ZYP Coatings	
		Brennan, John J., "Interfaces in BN Coated Fiber Reinforced Glass-Ceramic Matrix Composites," Scripta Metallurgica et Materialia, Vol. 31, No. 8, (1994), pp. 959-964	
		Callister, William D., Jr., "Materials Science and Engineering, An Introduction," (John Wiley & Sons, Inc., 2 nd Ed., 1991), pp. 637, 662	
		Campbell, S. S. & Gonczy, S. T., "In-Situ Formation of Boron Nitride Interfaces on Nextel 312™ Continuous Ceramic Fiber I: Nitriding Process and BlackGlas™ Ceramic Matrix Composite Properties."	

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STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

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Complete if Known

Application Number	10/775,174
Filing Date	February 11, 2004
First Named Inventor	Ernest L. LAWTON et al.
Art Unit	1774
Examiner Name	Jill M. Gray
Attorney Docket Number	03626.0066-00

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